

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2831	(engineer\$3 near3 drawing\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:53
L2	51	(engineer\$4 near3 drawing\$1) and ((text\$1 or keyword\$1) near7 box\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:54
L3	0	((retriev\$3 near5 drawing\$1)) same (by near5 keyword\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:54
L4	2831	(engineer\$3 near3 drawing\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:54
L5	44	((engineer\$4 near3 drawing\$1) and (identif\$4 near3 drawing\$1)) and (sav\$4 or stor\$4) and search\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:54
L6	1116	(graph\$3 drawing\$1) near10 identif\$4 near5 (keywrod\$1 text\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:54
L7	82	(engineer\$3 near3 drawing\$1) and (identif\$4 near3 drawing\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:54
L8	10	((engineer\$3 near3 drawing\$1) and (identif\$4 near5 drawing\$1 near5 information\$1)) and (sav\$4 or stor\$4) and search\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:58
L9	44	((engineer\$3 near3 drawing\$1) and (identif\$4 near3 drawing\$1)) and (sav\$4 or stor\$4) and search\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:58

L10	51	(engineer\$3 near3 drawing\$1) and (identif\$4 near5 (text\$1 or keyword\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:58
L11	53	((graph\$3 drawing\$3) near10 identif\$4 near5 (keywrod\$1 text\$1)) and ((stor\$3 sav\$3) near5 (text\$1 keyword\$1) near5 database\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:58
L12	0	((retriev\$3 near5 drawing\$1)) and (by near5 box\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:58
L13	0	((search\$3 near5 drawing\$1)) same (by near5 keyword\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:59
L14	0	((search\$3 near5 drawing\$1)) and (by near5 keyword\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:59
L15	0	((retriev\$3 near5 drawing\$1)) and (by near5 box\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:59
L16	42	((retriev\$3 near5 drawing\$1)) same (keyword\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 14:34
L17	10	((engineer\$3 near3 drawing\$1) and (identif\$4 near5 drawing\$1 near5 information\$1)) and (sav\$4 or stor\$4) and search\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 13:39
L18	0	((retriev\$3 near5 drawing\$1)) same (by near5 text\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 13:39
L19	10	((engineer\$3 near3 drawing\$1) and (identif\$4 near5 drawing\$1 near5 information\$1)) and (sav\$4 or stor\$4) and search\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 13:39

L20	53	((graph\$3 drawing\$3) near10 identif\$4 near5 (keywrod\$1 text\$1)) and ((stor\$3 sav\$3) near5 (text\$1 keyword\$1) near5 database\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 14:46
L21	38006	cad	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 14:30
L22	38006	"cad"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 14:31
L23	5	22 and 20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 14:30
L24	556	22 and 4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 14:31
L25	2	((retriev\$3 near5 drawing\$1)) same (keyword\$1) and 24	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 14:34
L26	53	((graph\$3 drawing\$3) near10 identif\$4 near5 (keywrod\$1 text\$1)) and ((stor\$3 sav\$3) near5 (text\$1 keyword\$1) near5 database\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 14:46
L27	5	((graph\$3 drawing\$3) near10 identif\$4 near5 (keywrod\$1 text\$1)) and ((stor\$3 sav\$3) near5 (text\$1 keyword\$1) near5 database\$1) and cad	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 14:46
S1	42	(engineer\$4 near3 drawing\$1) and (identif\$4 near3 drawing\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 13:32
S2	9	(engineer\$4 near3 drawing\$1) and (identif\$4 near5 drawing\$1 near5 information\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 13:32

S3	4	((engineer\$4 near3 drawing\$1) and (identif\$4 near5 drawing\$1 near5 information\$1)) and (sav\$4 or stor\$4) and search\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 13:32
S4	21	((engineer\$4 near3 drawing\$1) and (identif\$4 near3 drawing\$1)) and (sav\$4 or stor\$4) and search\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:54
S5	1913	engineer\$4 near3 drawing\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/01/30 09:36
S6	29	(engineer\$4 near3 drawing\$1) and ((text\$1 or keyword\$1) near7 box\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:54
S7	33	(engineer\$4 near3 drawing\$1) and (identif\$4 near5 (text\$1 or keyword\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 13:32
S8	2101	(engineer\$3 near3 drawing\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:54
S9	681	(graph\$3 drawing\$1) near10 identif\$4 near5 (keywrod\$1 text\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:54
S10	24	((graph\$3 drawing\$1) near10 identif\$4 near5 (keywrod\$1 text\$1)) and ((stor\$3 sav\$3) near5 (text\$1 keyword\$1) near5 database\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 13:33
S11	53	(engineer\$3 near3 drawing\$1) and (identif\$4 near3 drawing\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:54
S12	11	(engineer\$3 near3 drawing\$1) and (identif\$4 near5 drawing\$1 near5 information\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 13:32

S13	6	((engineer\$3 near3 drawing\$1) and (identif\$4 near5 drawing\$1 near5 information\$1)) and (sav\$4 or stor\$4) and search\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 13:00
S14	26	((engineer\$3 near3 drawing\$1) and (identif\$4 near3 drawing\$1)) and (sav\$4 or stor\$4) and search\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:54
S15	35	(engineer\$3 near3 drawing\$1) and ((text\$1 or keyword\$1) near7 box\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 13:33
S16	38	(engineer\$3 near3 drawing\$1) and (identif\$4 near5 (text\$1 or keyword\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:54
S17	686	(graph\$3 drawing\$3) near10 identif\$4 near5 (keywrod\$1 text\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 13:33
S18	686	(graph\$3 drawing\$3) near10 identif\$4 near5 (keywrod\$1 text\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 13:33
S19	24	((graph\$3 drawing\$3) near10 identif\$4 near5 (keywrod\$1 text\$1)) and ((stor\$3 sav\$3) near5 (text\$1 keyword\$1) near5 database\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:54
S20	24	((graph\$3 drawing\$3) near10 identif\$4 near5 (keywrod\$1 text\$1)) and ((stor\$3 sav\$3) near5 (text\$1 keyword\$1) near5 database\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 13:39
S21	517	(graph\$3 drawing\$1) near10 identif\$3 near5 (keywrod\$1 text\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 13:34
S22	1	"5895473".pn. and (retriev\$3 near5 drawing\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 14:23

S23	1572	(retriev\$3 near5 drawing\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 14:26
S24	0	((retriev\$3 near5 drawing\$1)) same (by near5 keyword\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:54
S25	0	((retriev\$3 near5 drawing\$1)) same (by near5 text\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 13:38
S26	0	((retriev\$3 near5 drawing\$1)) same (by near5 box\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 14:25
S27	0	((retriev\$3 near5 drawing\$1)) same (by near5 title\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 14:25
S28	0	((retriev\$3 near5 drawing\$1)) and (by near5 keyword\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 14:25
S29	0	((retriev\$3 near5 drawing\$1)) and (by near5 text\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 14:27
S30	0	((retriev\$3 near5 drawing\$1)) and (by near5 box\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:59
S31	1238	(search\$3 near5 drawing\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 14:26
S32	0	((search\$3 near5 drawing\$1)) same (by near5 keyword\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:59

S33	0	((search\$3 near5 drawing\$1)) and (by near5 keyword\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 12:59
S34	0	((search\$3 near5 drawing\$1)) and (by near5 text\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/08/06 14:27
S35	28	((retriev\$3 near5 drawing\$1)) same (keyword\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/05 13:00
S36	2	"6321232".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/17 10:19
S37	2	"6321232".pn. and (engineer\$3 same extract\$ same (keyword\$3 text\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/17 10:36
S38	1	"6321232".pn. and (extract\$ same (keyword\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/17 10:36
S39	1	"6321232".pn. and (extract\$3 same (keyword\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/17 10:36

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IEEE JNL IEEE Journal or Magazine

IEEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

**1. Computer Awards Top Achievers**

Ward, B.;

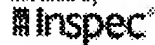
Computer

Volume 38, Issue 10, Oct. 2005 Page(s):91 - 94

Digital Object Identifier 10.1109/MC.2005.335

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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [Shape-based retrieval and analysis of 3D models](#)



Thomas Funkhouser, Michael Kazhdan

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(12.56 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

3 [Status report of the graphic standards planning committee](#)



Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3


Publisher: ACM Press

Full text available: [pdf\(15.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

4 [Special issue: AI in engineering](#)

 D. Sriram, R. Joobhani
April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press


Full text available:  pdf(8.79 MB) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.


5 Computing curricula 2001

 September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available:  pdf(613.63 KB)  html(2.78 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Special issue on knowledge representation

 Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press

Full text available:  pdf(13.13 MB) Additional Information: [full citation](#), [abstract](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Second ...

7 Pen computing: a technology overview and a vision

 André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press


Full text available:  pdf(5.14 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

8 Special issue: Game-playing programs: theory and practice

 M. A. Bramer
April 1982 **ACM SIGART Bulletin**, Issue 80


Publisher: ACM Press

Full text available:  pdf(9.23 MB) Additional Information: [full citation](#), [abstract](#)

This collection of articles has been brought together to provide SIGART members with an overview of Artificial Intelligence approaches to constructing game-playing programs. Papers on both theory and practice are included.

9 Technical reports
SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

 **Publisher:** ACM Press

Full text available:  [pdf\(5.28 MB\)](#) Additional Information: [full citation](#)

10 Special issue on spatial database systems: An introduction to spatial database systems

Ralf Hartmut Güting

October 1994 **The VLDB Journal — The International Journal on Very Large Data**


Bases, Volume 3 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(2.50 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We propose a definition of a spatial database system as a database system that offers spatial data types in its data model and query language, and supports spatial data types in its implementation, providing at least spatial indexing and spatial join methods. Spatial database systems offer the underlying database technology for geographic information systems and other applications. We survey data modeling, querying, data structures and algorithms, and system architecture for such systems. The em ...

11 Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed,


 Taking software requirements creation from folklore to analysis, SW components and product lines: from business to systems and technology, Software engineering survey)

September 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(1.98 MB\)](#) Additional Information: [full citation](#)

12 Real-time shading

 Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost


August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(7.39 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

13 Collision detection and proximity queries

 Sunil Hadap, Dave Eberle, Pascal Volino, Ming C. Lin, Stephane Redon, Christer Ericson

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(11.22 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This course will primarily cover widely accepted and proved methodologies in collision detection. In addition more advanced or recent topics such as continuous collision detection, ADFs, and using graphics hardware will be introduced. When appropriate the

methods discussed will be tied to familiar applications such as rigid body and cloth simulation, and will be compared. The course is a good overview for those developing applications in physically based modeling, VR, haptics, and robotics.

14 Conference abstracts



January 1977 **Proceedings of the 5th annual ACM computer science conference**

Publisher: ACM Press

Full text available: pdf(3.14 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

15 Self-assessment procedure VIII: a self-assessment procedure dealing with the programming language Ada



Peter Wegner

October 1981 **Communications of the ACM**, Volume 24 Issue 10

Publisher: ACM Press

Full text available: pdf(2.41 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems



Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems IS '97**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(7.24 MB) Additional Information: [full citation](#), [citations](#)

17 Spoken dialogue technology: enabling the conversational user interface



Michael F. McTear

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Publisher: ACM Press

Full text available: pdf(987.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

18 Real-time shadowing techniques





Tomas Akenine-Moeller, Eric Chan, Wolfgang Heidrich, Jan Kautz, Mark Kilgard, Marc Stamminger

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(11.17 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Shadows heighten realism and provide important visual cues about the spatial relationships between objects. But integration of robust shadow shadowing techniques in real-time rendering is not an easy task. In this course on how shadows are incorporated in real-time rendering, attendees learn basic shadowing techniques and more advanced techniques that exploit new features of graphics hardware. The course begins with shadowing techniques using shadow maps. After an introduction to shadow maps and ...

19 [High dynamic range imaging](#)



Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(20.22 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent advances in high-dynamic-range imaging, from capture to display, that remove this restriction, thereby enabling images to represent the color gamut and dynamic range of the original scene rather than the limited subspace imposed by current monitor ...

20 [SpeechSkimmer: a system for interactively skimming recorded speech](#)



Barry Arons

March 1997 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Listening to a speech recording is much more difficult than visually scanning a document because of the transient and temporal nature of audio. Audio recordings capture the richness of speech, yet it is difficult to directly browse the stored information. This article describes techniques for structuring, filtering, and presenting recorded speech, allowing a user to navigate and interactively find information in the audio domain. This article describes the SpeechSkimmer system for interacti ...

Keywords: audio browsing, interactive listening, nonspeech audio, speech as data, speech skimming, speech user interfaces, time compression

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21 [Selected IR-Related Dissertation Abstracts](#)



May 1991 **ACM SIGIR Forum**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: [pdf\(2.71 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, one or more Dissertation Abstracts International (DAI) subject descriptors chosen by the author, and abstract. Unless otherwise spec ...

22 [Evaluating message understanding systems: an analysis of the third message understanding conference \(MUC-3\)](#)



Nancy Chinchor, David D. Lewis, Lynette Hirschman

September 1993 **Computational Linguistics**, Volume 19 Issue 3

Publisher: MIT Press

Full text available:

[pdf\(3.00 MB\)](#) [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper describes and analyzes the results of the Third Message Understanding Conference (MUC-3). It reviews the purpose, history, and methodology of the conference, summarizes the participating systems, discusses issues of measuring system effectiveness, describes the linguistic phenomena tests, and provides a critical look at the evaluation in terms of the lessons learned. One of the common problems with evaluations is that the statistical significance of the results is unknown. In the disc ...

23 [Is it live or is it Memorex?](#)



Tory Sawyer, Randy Anderson, Gary McCuaig

September 1986 **Proceedings of the 14th annual ACM SIGUCCS conference on User services: setting the direction**

Publisher: ACM Press

Full text available: [pdf\(2.60 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

Pattern-based reverse-engineering of design components

Rudolf K. Keller, Reinhard Schauer, Sébastien Robitaille, Patrick Pagé


May 1999 **Proceedings of the 21st international conference on Software engineering**

Publisher: IEEE Computer Society Press

Full text available:  pdf(1.43 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


Keywords: design component, design pattern, design recovery, object-oriented design, reverse-engineering, tool support, visualization

25 Industrial strength hypermedia: managing engineering information with hypermedia

 Peter R. Nelson, Steven E. Poltrock, Douglas Schuler

August 1996 **ACM SIGOIS Bulletin**, Volume 17 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.79 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

In a paper entitled "Industrial Strength Hypermedia: Requirements for a Large Engineering Enterprise" published in the Proceedings of Hypertext '91 [Malc91], K. C. Malcolm and two of the authors (Steve Poltrock and Doug Schuler) presented their vision for the use of hypermedia to manage large-scale engineering information. Since that time, engineers and scientists within the Boeing Company have been working to refine and implement that vision in conjunction with vendors of hypermedia and informa ...

26 Selected IR-Related Dissertation Abstracts

 March 1993 **ACM SIGIR Forum**, Volume 27 Issue 1

Publisher: ACM Press


Full text available:  pdf(2.24 MB) Additional Information: [full citation](#), [abstract](#)

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, and abstract. Unless otherwise specified, paper or microform copies of dissertations may be ordered from University Microfilms Inter ...


27 Selected IR-Related Dissertation Abstracts

 February 1992 **ACM SIGIR Forum**, Volume 26 Issue 1

Publisher: ACM Press


Full text available:  pdf(2.24 MB) Additional Information: [full citation](#)

28 Level II technical support in a distributed computing environment

 Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**


Publisher: ACM Press


Full text available:  pdf(5.73 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

29 Distributed computing: Algorithmic foundations of the internet

Alejandro López-Ortiz

June 2005 **ACM SIGACT News**, Volume 36 Issue 2

 **Publisher:** ACM Press

Full text available:  pdf(7.45 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


In this paper we survey the field of Algorithmic Foundations of the Internet, which is a new area within theoretical computer science. We consider six sample topics that illustrate the techniques and challenges in this field.

30 [Building efficient and effective metasearch engines](#) 

 Weiyl Meng, Clement Yu, King-Lup Liu

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Publisher: ACM Press

Full text available:  pdf(416.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Frequently a user's information needs are stored in the databases of multiple search engines. It is inconvenient and inefficient for an ordinary user to invoke multiple search engines and identify useful documents from the returned results. To support unified access to multiple search engines, a metasearch engine can be constructed. When a metasearch engine receives a query from a user, it invokes the underlying search engines to retrieve useful information for the user. Metasearch engines have ...


Keywords: Collection fusion, distributed collection, distributed information retrieval, information resource discovery, metasearch

31 [Web Information Retrieval: The Importance of Prior Probabilities for Entry Page Search](#) 

 Wessel Kraaij, Thijs Westerveld, Djoerd Hiemstra

August 2002 **Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available:  pdf(135.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An important class of searches on the world-wide-web has the goal to find an entry page (homepage) of an organisation. Entry page search is quite different from Ad Hoc search. Indeed a plain Ad Hoc system performs disappointingly. We explored three non-content features of web pages: page length, number of incoming links and URL form. Especially the URL form proved to be a good predictor. Using URL form priors we found over 70% of all entry pages at rank 1, and up to 89% in the top 10. Non-content ...

Keywords: URLs, entry page search, language models, links, parameter estimation, prior probabilities

32 [Selected IR-Related Dissertation Abstracts](#) 

 September 1991 **ACM SIGIR Forum**, Volume 25 Issue 2

Publisher: ACM Press

Full text available:  pdf(2.75 MB) Additional Information: [full citation](#), [abstract](#)

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33 Digital publication (panel session): status, opportunities and problems

 Dick Phillips, Michael Lesk, Michael Hawley, Andries van Dam, Richard J. Beach
August 1990 **ACM SIGGRAPH 90 Panel Proceedings**

Publisher: ACM Press

Full text available:  pdf(4.39 MB) Additional Information: [full citation](#), [index terms](#)

34 TOPIC ISLANDS—a wavelet-based text visualization system

Nancy E. Miller, Pak Chung Wong, Mary Brewster, Harlan Foote
October 1998 **Proceedings of the conference on Visualization '98**

Publisher: IEEE Computer Society Press


Full text available:  pdf(1.98 MB)  Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
[Publisher Site](#)

Keywords: information retrieval, information visualization, text visualization, wavelet transform

35 Information systems outsourcing: a survey and analysis of the literature

 Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka
November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4


Publisher: ACM Press

Full text available:  pdf(1.51 MB) Additional Information: [full citation](#), [abstract](#), [references](#)


In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highlight ...

Keywords: determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

36 IR theory: Table extraction using conditional random fields

 David Pinto, Andrew McCallum, Xing Wei, W. Bruce Croft
July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available:  pdf(200.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The ability to find tables and extract information from them is a necessary component of data mining, question answering, and other information retrieval tasks. Documents often contain tables in order to communicate densely packed, multi-dimensional information. Tables do this by employing layout patterns to efficiently indicate fields and records in two-dimensional form. Their rich combination of formatting and content present difficulties for traditional language modeling techniques, however. T ...

Keywords: conditional random fields, hidden Markov models, information extraction, metadata, question answering, tables

37 OOPSLA onward! track: No name: just notes on software reuse



Robert Biddle, Angela Martin, James Noble

December 2003 **ACM SIGPLAN Notices**, Volume 38 Issue 12

Publisher: ACM Press

Full text available: [pdf\(2.62 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the beginning, so our myths and stories tell us, the programmer created the program from the eternal nothingness of the void. In this essay, we recognise that programs these days are like any other assemblage, and suggest that in fact programming has always been about reuse. We also explore the nature of reuse, and claim that Components themselves are not the most important consideration for reuse; it is the end product, the composition. The issues still involve value, investment, and return. ...

Keywords: components, object-oriented programming, software reuse

38 Onward papers: No name: just notes on software reuse



Robert Biddle, Angela Martin, James Noble

October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**

Publisher: ACM Press

Full text available: [pdf\(1.81 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the beginning, so our myths and stories tell us, the programmer created the program from the eternal nothingness of the void. In this essay, we recognise that programs these days are like any other assemblage, and suggest that in fact programming has always been about reuse. We also explore the nature of reuse, and claim that Components themselves are not the most important consideration for reuse; it is the end product, the composition. The issues still involve value, investment, and return. ...

Keywords: components, object-oriented programming, software reuse

39 gIBIS: a hypertext tool for exploratory policy discussion



Jeff Conklin, Michael L. Begeman

October 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 4

Publisher: ACM Press

Full text available: [pdf\(2.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper describes an application-specific hypertext system designed to facilitate the capture of early design deliberations. It implements a specific method, called Issue Based Information Systems (IBIS), which has been developed for use on large, complex design problems. The hypertext system described here, gIBIS (for graphical IBIS), makes use of color and a high-speed relational database server to facilitate building and browsing typed IBIS networks. Further, gIBIS is designed to supp ...

40 Illustrating smooth surfaces



Aaron Hertzmann, Denis Zorin

July 2000 **Proceedings of the 27th annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: [pdf\(7.27 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We present a new set of algorithms for line-art rendering of smooth surfaces. We

introduce an efficient, deterministic algorithm for finding silhouettes based on geometric duality, and an algorithm for segmenting the silhouette curves into smooth parts with constant visibility. These methods can be used to find all silhouettes in real time in software. We present an automatic method for generating hatch marks in order to convey surface shape. We demonstrate these algorithms with a drawing s ...

Keywords: direction fields, hatching, non-photorealistic rendering, pen-and-ink illustration, silhouettes

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Relevance scale ☐ ☐ ☐ ☐ ☐

41 [Assistive technologies for individuals with visual impairments I: Gist summaries for visually impaired surfers](#)



Simon Harper, Neha Patel

October 2005 **Proceedings of the 7th international ACM SIGACCESS conference on Computers and accessibility Assets '05**

Publisher: ACM Press

Full text available: [pdf\(2.19 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Anecdotal evidence suggests that Web document summaries provide the sighted reader with a basis for making decisions regarding the route to take within non-linear text; and additional research shows that sighted people use 'Gist' summaries as decision points to bolster their browsing behaviour. Other studies have found that visually impaired users are hindered in their cognition of the content of Web-pages because users must wait for an entire Web-page to be read before deciding on it's usefulness ...

Keywords: document engineering, tools, visual impairment, web

42 [B-trees: bearing fruits of all kinds](#)



Beng Chin Ooi, Kian-Lee Tan


January 2002 **Australian Computer Science Communications , Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5 CRPITS '02**, Volume 24 Issue 2


Publisher: Australian Computer Society, Inc. , IEEE Computer Society Press

Full text available: [pdf\(872.95 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Index structures are often used to support search operations in large databases. Many advanced database application domains such as spatial databases, multimedia databases, temporal databases, and object-oriented databases, call for index structures that are specially designed and tailored for the domains. Interestingly, in each of these domains, we find methods that are based on one distinct structure --- the B-tree. Invented some thirty years ago, the B-tree has been challenged repeatedly, but ...


Keywords: b-tree, high-dimensional databases, main memory databases, multimedia databases, spatial databases

-  [Authoring Support: Automatic detection of 'Goal' segments in basketball videos](#)
Surya Nepal, Uma Srinivasan, Graham Reynolds
October 2001 **Proceedings of the ninth ACM international conference on Multimedia**
Publisher: ACM Press

Full text available:  [pdf\(182.72 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Advances in the media and entertainment industries, for example streaming audio and digital TV, present new challenges for managing large audio-visual collections. Efficient and effective retrieval from large content collections forms an important component of the business models for content holders and this is driving a need for research in audio-visual search and retrieval. Current content management systems support retrieval using low-level features, such as motion, colour, texture, beat and ...

Keywords: content-based retrieval, sports video analysis, temporal models

- 44 [The digital library integrated task environment \(DLITE\)](#)
 Steve B. Cousins, Andreas Paepcke, Terry Winograd, Eric A. Bier, Ken Pier
July 1997 **Proceedings of the second ACM international conference on Digital libraries**
Publisher: ACM Press

Full text available:  [pdf\(1.57 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


Keywords: digital library, direct-manipulation, holoprasting, user interface, world-wide web

- 45 [Creating and sharing Web notes via a standard browser](#)
 Ng S. T. Chong, Masao Sakauchi
September 2001 **ACM SIGCUE Outlook**, Volume 27 Issue 3
Publisher: ACM Press

Full text available:  [pdf\(1.41 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today practitioners in education actively publish their instructional materials as HTML documents, using a variety of media. Yet, in most cases, third parties can only passively read the documents displayed in their browsers. This partly accounts for why students in Web-based courses continue to take notes and get feedback on assignments from their teachers on paper documents [9]. In this paper, we describe an intuitive Web annotation environment that allows users to annotate directly on any DHTML ...

Keywords: Web-based course delivery systems, note taking, shared Web annotated systems, synchronous and asynchronous CSCW (Computer Supported Cooperative Work) systems

- 46 [Creating and sharing web notes via a standard browser](#)
 Ng S. T. Chong, Masao Sakauchi
March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**
Publisher: ACM Press


Full text available:  [pdf\(298.63 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: note taking, shared web annotation systems, synchronous and asynchronous

CSCW systems, web-based course delivery systems


- 47 [On computer supported collaborative writing tools for distributed environments](#)
Kai H. Chang, Yu Gong, Tim Dollar, Shefali Gajiwala, Byong Lee, A. Wesley Wear
February 1995 **Proceedings of the 1995 ACM 23rd annual conference on Computer science**

Publisher: ACM Press

Full text available:  [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 48 [Queue management: Persistent dropping: an efficient control of traffic aggregates](#)
Hani Jamjoom, Kang G. Shin
August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications**

Publisher: ACM Press

Full text available:  [pdf\(804.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Flash crowd events (FCEs) present a real threat to the stability of routers and end-servers. Such events are characterized by a large and sustained spike in client arrival rates, usually to the point of service failure. Traditional rate-based drop policies, such as Random Early Drop (RED), become ineffective in such situations since clients tend to be persistent, in the sense that they make multiple retransmission attempts before aborting their connection. As it is built into TCP's congestion co ...

Keywords: flash crowd events, modeling, optimization, queue management

- 49 [Simulation: A system for simulation, emulation, and deployment of heterogeneous sensor networks](#)
Lewis Girod, Thanos Stathopoulos, Nithya Ramanathan, Jeremy Elson, Deborah Estrin, Eric Osterweil, Tom Schoellhammer
November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems**

Publisher: ACM Press

Full text available:  [pdf\(345.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently deployed Wireless Sensor Network systems (WSNs) are increasingly following *heterogeneous* designs, incorporating a mixture of elements with widely varying capabilities. The development and deployment of WSNs rides heavily on the availability of simulation, emulation, visualization and analysis support. In this work, we develop tools specifically to support *heterogeneous* systems, as well as to support the measurement and visualization of *operational* ...

Keywords: EmStar, TinyOS, real code simulation, sensor networks

- 50 [A language and environment for architecture-based software development and evolution](#)
Nenad Medvidovic, David S. Rosenblum, Richard N. Taylor
May 1999 **Proceedings of the 21st international conference on Software engineering**

Publisher: IEEE Computer Society Press

Full text available:  [pdf\(1.56 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


Keywords: architecture description language, evolution, implementation mapping, software architecture, software environment

51 Tangible products: redressing the balance between appearance and action 

Tom Djajadiningrat, Stephan Wensveen, Joep Frens, Kees Overbeeke

September 2004 **Personal and Ubiquitous Computing**, Volume 8 Issue 5

Publisher: Springer-Verlag

Full text available:  pdf(1.22 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Over the past decade, our group has approached interaction design from an industrial design point of view. In doing so, we focus on a branch of design called "formgiving". Whilst formgiving is somewhat of a neologism in English, many other European languages do have a separate word for form-related design, including German (Gestaltung), Danish (formgivning), Swedish (formgivning) and Dutch (vormgeving). Traditionally, formgiving has been concerned with such aspects of objects as form, co ...

Keywords: Ecological psychology, Industrial design, Semantics, Tangible interaction

52 Semantic web applications: CS AKTive space: representing computer science in the semantic web 



m. c. schraefel, Nigel R. Shadbolt, Nicholas Gibbins, Stephen Harris, Hugh Glaser

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(346.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a Semantic Web application that we call CS AKTive Space. The application exploits a wide range of semantically heterogeneous and distributed content relating to Computer Science research in the UK. This content is gathered on a continuous basis using a variety of methods including harvesting and scraping as well as adopting a range of models for content acquisition. The content currently comprises around ten million RDF triples and we have developed storage, retrieval and maintenance methods ...

Keywords: ontologies, semantic web, semantic web challenge groups


53 TROLL: a language for object-oriented specification of information systems 



Ralf Jungclaus, Gunter Saake, Thorsten Hartmann, Cristina Sernadas

April 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 2

Publisher: ACM Press

Full text available:  pdf(2.47 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

TROLL is a language particularly suited for the early stages of information system development, when the universe of discourse must be described. In TROLL the descriptions of the static and dynamic aspects of entities are integrated into object descriptions. Sublanguages for data terms, for first-order and temporal assertions, and for processes, are used to describe respectively the static properties, the behavior, and the evolution over time of objects. TROLL organizes system design through ...


54 Coordinating autonomous entities with STL 



Oliver Krone, Fabrice Chantemargue, Thierry Dagaëff, Michael Schumacher

September 1998 **ACM SIGAPP Applied Computing Review**, Volume 6 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.67 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper describes ECM, a new coordination model and STL its corresponding language. STL's power and expressiveness are shown through a distributed implementation of a generic autonomy-based multi-agent system, which is applied to a collective robotics simulation, thus demonstrating the appropriateness of STL for developing a generic coordination platform for autonomous agents.

Keywords: autonomous agents, collective robotics, coordination, distributed systems


55 [Applying object-oriented analysis and design](#) 



Jean-Marc Nerson

September 1992 **Communications of the ACM**, Volume 35 Issue 9

Publisher: ACM Press

Full text available:  pdf(2.54 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: analysis, flexible software architecture, object-oriented notation and methodology, object-oriented software engineering, reliable component reusability

56 [Surrogates for physical artifacts: The 3D vase museum: a new approach to context in a digital library](#) 



Horn-yeu Shiaw, Robert J. K. Jacob, Gregory R. Crane

June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available:  pdf(908.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a new approach to displaying and browsing a digital library collection, a set of Greek vases in the Perseus digital library. Our design takes advantage of three-dimensional graphics to preserve context even while the user focuses in on a single item. In a typical digital library user interface, a user can either get an overview for context or else see a single selected item, sacrificing the context view. In our 3D Vase Museum, the user can navigate seamlessly from a high level scatter ...

57 [A survey of computer graphics image encoding and storage formats](#) 



Wayne E. Carlson

April 1991 **ACM SIGGRAPH Computer Graphics**, Volume 25 Issue 2

Publisher: ACM Press

Full text available:  pdf(900.93 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper is a survey of several storage formats used for computer generated or sampled images, both for purposes of archival storage and transmission (transfer from one location or platform to another). Various methodologies for the compression of such images are presented and discussed, Image storage standards and some of the more common commercial image storage techniques are presented in terms of the underlying compression algorithms they are based upon and the general internal data structure ...

58 [Performance evaluation of three microcomputer based systems in a small business dataprocessing environment.](#) 



T. G. Lewis

August 1978 **ACM SIGMINI Newsletter , Proceedings of the first SIGMINI symposium**

on Small systems SIGMINI '78, Volume 4 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(678.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

In March, 1977 a team of students under the guidance of the author began studying three personal computer systems to determine their strengths and weaknesses when placed in a data processing environment. The three systems were chosen to represent a broad spectrum of contemporary microcomputer based data processing equipment. System W is a firmware BASIC computer originally designed for scientific applications but found being used in a variety of business processing applications. System T is ...


Keywords: Application software, Benchmarks, Business computer evaluation, Files, Microprocessor, Minicomputer performance, ROM BASIC, Tape versus diskette

59 [Rapid assembly and deployment of domain visualisation solutions](#) 

Tim Pattison, Rudi Vernik, Daniel Goodburn, Matthew Phillips

December 2001 **Australian symposium on Information visualisation - Volume 9
CRPITS '01**


Publisher: Australian Computer Society, Inc.

Full text available:  [pdf\(1.73 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Information visualisation exploits the natural perceptual capabilities of the decision-maker to facilitate the rapid assimilation and analysis of abstract, complex and often voluminous information. In this paper we argue that a major advance for computer-based information visualisation will be the definition of an open, component-based framework to support the rapid assembly and deployment of visualisation solutions. The proposed visualisation framework should not only support and extend the fun ...

Keywords: component-based software engineering, information visualisation systems, open-source software, software architecture, visualisation solutions

60 [Fragmented interaction: establishing mutual orientation in virtual environments](#) 

 Jon Hindmarsh, Mike Fraser, Christian Heath, Steve Benford, Chris Greenhalgh

November 1998 **Proceedings of the 1998 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available:  [pdf\(2.26 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: media spaces, object-focused work, social interaction, virtual environments

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61 [Technical Papers: A library of generic concepts for composing knowledge bases](#)



Ken Barker, Bruce Porter, Peter Clark

October 2001 **Proceedings of the 1st international conference on Knowledge capture K-CAP '01**

Publisher: ACM Press

Full text available: [pdf\(190.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Building a knowledge base for a given domain traditionally involves a subject matter expert and a knowledge engineer. One of the goals of our research is to eliminate the knowledge engineer. There are at least two ways to achieve this goal: train domain experts to write axioms (*i.e.*, turn them into knowledge engineers) or create tools that allow users to build knowledge bases without having to write axioms. Our strategy is to create tools that allow users to build knowledge bases through ...

Keywords: knowledge engineering, knowledge reuse, ontologies

62 [Two experiences designing for effective security](#)



Rogério de Paula, Xianghua Ding, Paul Dourish, Kari Nies, Ben Pillet, David Redmiles, Jie Ren, Jennifer Rode, Roberto Silva Filho

July 2005 **Proceedings of the 2005 symposium on Usable privacy and security SOUPS '05**

Publisher: ACM Press

Full text available: [pdf\(526.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In our research, we have been concerned with the question of how to make relevant features of security situations visible to users in order to allow them to make informed decisions regarding potential privacy and security problems, as well as regarding potential implications of their actions. To this end, we have designed technical infrastructures that make visible the configurations, activities, and implications of available security mechanisms. This thus allows users to make informed choices a ...


Keywords: YANCEES, effective security, event-based architecture, impromptu, peer-to-peer file-sharing application, privacy practices, theoretical security, usable security, vavoom, visualization

63 [!\[\]\(c55d2aabb3e38162b8b5f28076c28b85_img.jpg\) A digital libraries for education: Partnership reviewing: a cooperative approach for peer review of complex educational resources](#) 

John Weatherley, Tamara Sumner, Michael Khoo, Michael Wright, Marcel Hoffmann

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available:  pdf (672.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Review of digital educational resources, such as course modules, simulations, and data analysis tools, can differ from review of scholarly articles, in the heterogeneity and complexity of the resources themselves. The Partnership Review Model, as demonstrated in two cases, appears to promote cooperative interactions between distributed resource reviewers, enabling reviewers to effectively divide up the task of reviewing complex resources with little explicit coordination. The shared structural o ...

Keywords: computer-mediated communication, distributed cognition, educational digital libraries, peer review, scholarly publishing, second order interactional effects

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